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Certificate No:
KRH 16 ATEX 1048
Issue No: 1 (2017-07-19)
Issue No: 0 (2016-10-24)

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1. EU-TYPE EXAMINATION CERTIFICATE

2. Equipment and protective system intended for use in potentially explosive atmospheres:
Directive 2014/34/EU

3. EU-Type-examination Certificate Number:

KRH 16 ATEX 1048

4. Equipment: **SGT Series Portable Single Gas Detector Type SP-SGT-*****

5. Manufacturer: **SENKO Co., Ltd**

6. Address: **73, Oesammi-ro, 15 Beon-gil, Osan-si, Gyonggi-do, 18111, Korea, Republic of**

7. This equipment or protective systems and any acceptable variation thereto are specified in the schedule to certificate and the documents therein referred to.

8. The KRH certifies that equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive 2014/34/EU of 26 February 2014. The examination and test results are recorded in the confidential report number KRH-ATEX-0039-2016 and KRH-ATEX-0013-2017.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013 EN 60079-11:2012

10. If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

11. This EU-Type-examination Certificate relates only to the design and construction of the specified equipment or protective systems in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture and supply of this equipment or protective systems.

12. The marking of the equipment shall include the following:

Ex II 1 G Ex ia IIC T4 Ga

This certificate is issued at Athens on 2017-07-19, under the authority of the Hellenic Republic of Greece by KR Hellas Ltd., Notified Body No. 2198.



Notified Body No.2198



(KRH Endorse)

Shin Jeong-do

CEO of KR Hellas Ltd

Any person not a party to the contract pursuant which this document is delivered may not assert a claim against KRH for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgment, fault or negligence committed by personal of KRH in establishment or issuance of this document, and in connection with any activities for which it may provide. In this provision KRH shall mean the KR Hellas Ltd. as well as all its subsidiaries, directors, officers, employees and any other acting on behalf of KR Hellas Ltd.



13.

SCHEDULE

14. **EU-Type-examination Certificate KRH 16 ATEX 1048**

15. **Description of equipment or protective system**

The SGT Series Portable Single Gas Detector is designed for;

- 1) The SGT series are hand-held, battery operated single gas detectors to continuously monitor oxygen, toxic or combustible gases. The unit samples the atmosphere in diffusion mode using one electrochemical sensor for each of eight gases; O₂, CO, SO₂, H₂, H₂S, NH₃, NO₂ or CL₂.
- 2) The detector alerts the user to potentially unsafe exposure with visual, vibrating and audible alarms when gas concentration exceeds alarm set points, and readings are displayed on an LCD. The detector has IR communications for changing the alarm set points, the calibration range and the display configuration. The IR communications shall be only used in safe area.
- 3) Power is provided by one, non-user replaceable, 3.6 V Lithium/Thionyl chloride (Li/SOCl₂) battery containing one cell. The ambient temperature ranges for the series are as follows: -40 °C ≤ Ta ≤ +50 °C (for all gas types except O₂), -35 °C ≤ Ta ≤ +50 °C (for O₂ type).
- 4) The configuration for SGT series is as follows:
SP-SGT-*** :
- SP-SGT : Model name
- *** : Gas type(O₂, CO, SO₂, H₂, H₂S, NH₃, NO₂ or CL₂)
- 5) For the detail information, see the Safety instructions.

16. **Descriptive documents**

Certification file No.: KRH-ATEX-0039-2016, KRH-ATEX-0013-2017

17. **Specific conditions of use**

N/A

18. **Essential Health and Safety Requirements**

Refer to covered by standards list at 9.





19. Routine Verifications and Tests

N/A

20. Drawings and documents

Number	Issue	Date	Description
1399SGTB500-400	0.8	2015-08-25	CIR_Main Block diagram
1400SGTB501-400	0.8	2015-08-25	CIR_Main Circuit Diagram
1401SGTB502-200	0.8	2015-08-25	PCB_Main Routing Top
1402SGTB503-200	0.8	2015-08-25	PCB_Main Routing Bottom
1403SGTB504-200	0.8	2015-08-25	PCB_Main Mask Top
1404SGTB505-200	0.8	2015-08-25	PCB_Main Mask Bottom
1405SGTB506-200	0.8	2015-08-25	PCB_Main Silk Top
1406SGTB507-200	0.8	2015-08-25	PCB_Main Silk Bottom
1407SGTB508-200	0.8	2015-08-25	PCB_Main Drill Drawing
1424SGTB525-500	0.9	2017-06-01	PAR_MAIN PART LIST
1408SGTB509-100	0.8	2015-08-25	ASS_ASSY MAIN
1409SGTB510-300	0.8	2015-08-25	DRA_FRONT COVER
1410SGTB511-300	0.9	2017-07-02	DRA_BACK COVER
1411SGTB512-300	0.9	2017-07-02	DRA_LCD BRACKET
1412SGTB513-300	0.8	2015-08-25	DRA_GAS TYPE STICKER
1413SGTB514-300	0.8	2015-08-25	DRA_GAS TYPE STICKER TAPE
1414SGTB515-300	0.8	2015-08-25	DRA_SENSOR RUBBER
1415SGTB516-300	0.8	2015-08-25	DRA_SENSOR RUBBER TAPE
1416SGTB517-300	0.8	2015-08-25	DRA_SENSOR RUBBER SHEET
1417SGTB518-100	0.8	2015-08-25	ASS_BELT CLIP
1418SGTB519-300	0.8	2015-08-25	DRA_BELT CLIP A
1419SGTB520-300	0.8	2015-08-25	DRA_BELT CLIP B
1420SGTB521-300	0.8	2015-08-25	DRA_BELT CLIP C
1421SGTB522-300	0.8	2015-08-25	DRA_BELT CLIP D
1422SGTB523-100	0.9	2017-07-02	ASS_MAIN PCB
1423SGTB524-300	0.8	2015-08-25	DRA_LABEL STICKER
1429SGTE201-900	1.1	-	Safety Instructions

21. Details of Certificate change

1) Issue No. 1: Reissued on 2017-07-19

- Addition of gas detection sensors for three gases (CO, H₂S, and O₂).

End of Certificate



(KRH Enderse)